AGENDA (version 4)

EURAMET TC-EM SC DCQM

Expert Meeting on DC and Quantum Metrology and Dissemination Meeting for the EMPIR Project QuADC

Date: 20 – 21 May, 2019
Place: NPL, Hampton Rd | Teddington | Middlesex | UK

Monday, 20 May

11:00	***NPL Lab Tour***	
12:00	***Lunch***	
13:00	***Welcome***	JT Janssen
13:10	Confirmation of the agenda	Antti Manninen
13:20	EURAMET TC-EM SC DCQM - DC and QM activities at EURAMET 2017 - 19 - Strategic planning of comparisons - EURAMET projects of SC DCQM - CMCs, calibration guides - Next meetings of EURAMET TC-EM SC DCQM - Other topics	Antti Manninen
15:00	***Break***	
15:30	EMN-Q - Status report	Hansjörg Scherer
16:00	EMPIR project SEQUOIA - Single-electron quantum optics for quantum-enhanced measurements	Jonathan Fletcher
16:30	***Posters***	
18:00	***Drinks reception*** at NPL to celebrate world metrology day and the new SI	
19:30	***Dinner*** at The Kings Head, 123 High Street, Teddington	

Tuesday, 21 May

08:30	***Coffee***	
09:00	EMPIR project e-SI-Amp - Quantum realisation of the SI ampere	Masaya Kataoka
09:30	Progress with single-electron devices at VTT MIKES	Antti Manninen
10:00	Electron transport in hybrid superconductor - normal-metal systems	Vladimir Bubanja
10:30	***Break***	

11:00	The quantum anomalous Hall effect in topological insulators	Hansjörg Scherer
11:30	Polymer-encapsulated molecularly doped epigraphene for quantum resistance metrology	Sergey Kubatkin
12:00	***Lunch***	
13:00	Linking ac voltage scale to quantum standards	Ilya Budovsky
13:30	Progress report on the Dual Josephson Impedance Bridge (DJIB)	Frédéric Overney
14:00	***Break***	
14:30	EMPIR project QuADC - Waveform metrology based on spectrally pure Josephson voltages	Ralf Behr
14:50	Quantum voltage digitiser	Jane Ireland
15:10	Advanced technology for the pulse-driven AC Josephson voltage standard	Oliver Kieler
15:30	The load compensation bridge	Blaise Jeanneret
15:50	Cold photo diodes	Eivind Bardalen
16:10	Quantum standards in a large calibration lab	Ludwig Schaidhammer / Andreas Böck
16:30	Final discussion	
17:00	***End***	

POSTERS

Ultrastable Low-noise Current Amplifier (ULCA)	Hansjörg Scherer
Selected results of CCC-based experiments with metal-foil ALPHA resistors	M. Götz, E. Pesel, N. Kaneko, and T. Oe
Quantum voltage digitiser	Jane Ireland
Experiments towards mitigation of the ACJVS voltage lead errors by impedance matching	Helko van den Brom
Recent results on cryocooled Josephson standards at INRIM	Andrea Sosso
Characterization at CEM of a RVD and a buffer amplifier developed in the QuADC Project	Félix Raso Alonso
Development and characterization of standard resistors	Nobu-Hisa Kaneko
Towards an ac quantum voltage standard using a pulsed laser and an ultra-fast photodiode to drive a Josephson junction array	Jaani Nissilä
Optical pulse-drive for the Josephson arbitrary waveform synthesizer (JAWS)	Oliver Kieler